

**DAY 1: Tuesday, December 11, 2012**

9:00 Registration  
 1:00 Welcome/Announcements: Doug Olson  
 1:10 Keynote Speaker: Charlie Smith

**SESSION #1: RECIRCULATING AQUACULTURE AND HATCHERY INNOVATIONS****Session Chair: Chris Starr**

1:30 **Jim Powell**, Advanced and Out of Phase Repeat Spawning in Captive Rainbow Trout by Using Photoperiod.

1:50 **Chris Jeszke**, IDFG Ashton Fish Hatchery. Development of Daughterless Technology (Trojan Sex Chromosomes) for Control of Introduced Brook Trout.

2:10 **Todd Pearsons**, Grant County PUD, Ephrata WA. Hitting the Right Target: Rearing Innovations

2:30 **KC Hosler**, PR Aqua Supplies Ltd., Nanaimo, BC. Progressive Water Use Strategies Conserve Water and Meet Production Goals.

2:50 **Ray Billings**, Freshwater Fisheries Society of BC, Victoria BC. Utilizing Airlift Water Reuse Technology to Help Achieve Electrical Energy Savings.

3:10-3:30 Afternoon Break / Raffle Drawing \* (3:25)

**SESSION #2: RECIRCULATING AQUACULTURE AND HATCHERY INNOVATIONS****Session Chair: Nate Wiese**

3:30 **Jeff Milton**, ADFG Sports Fish Hatchery Program Supervisor, Anchorage AK. Cold Water RAS Hatchery Construction and Operation: Challenges and Successes

3:50 **Steve Sharon**, Wyoming GFD, Use of RAS Technology in Serial Re-Use Fish Culture – Why?

4:10 **Ian Adams**, Partial Water Re-Use Systems, Operations and Maintenance.

4:30 **Brian Vinci**, The Freshwater Institute, Shepherdstown, WV. Water Re-Use Systems, Water Velocities and Fish Fitness – What is the Connection?

4:50 **Grace Karreman**, Aquatic Life Sciences, Nanaimo BC. Biosecurity and Recirculating Systems.

5:10 Announcements/Adjourn (Raffle Drawing \*)  
 5:10-10:00 Trade Show, Round Table, and Poster Session Social

**DAY 2: Wednesday, December 12, 2012**

8:00 Announcements: Larry Telles  
 8:05 Raffle Drawing\*

**SESSION #3: PROGRESSIVE FISH CULTURE****Session Chair: Jim Bowker**

8:10 **Chris Tata**, NOAA Manchester. Transition to a Locally Adapted Steelhead Stock.

8:30 **Deborah Harstad**, NMFS Seattle, WA. Variation in Early Male Maturation and Smolting of Juvenile Summer Chinook Salmon and Varying Over-winter Temperature Regimes.

8:50 **Eric D. Lauver**, Grant County PUD, Ephrata WA. Precocious Male Straying: A Case Study of Spring Chinook Mini-jack Straying and Distribution from a Captive Brood Program.

9:10 **Brian Beckman**, NOAA Seattle, WA. Stuck in the Middle: Contrasting Effects of Release Size on Early Male Maturation and In-river Survival of SCS Smolts.

9:50-10:20 Morning Break / Raffle Drawing\* (10:15)

**SESSION #4: PROGRESSIVE FISH CULTURE****Session Chair: Travis Collier**

10:20 **Josh Marauskas**, Chelan County PUD, Wenatchee WA. Increased Performance of Spring Chinook Salmon Reared in Partial Re-Use Circular Vessels Compared to Flow Through Raceways.

10:40 **Dina Spangenberg**, NOAA Seattle, WA. Environmental Effects on Smolt Quality and Early Male Maturation in Spring Chinook Salmon.

11:00 **Andrew Dittman**, NOAA Seattle WA. Early Imprinting of Hatchery-reared Salmon to Targeted Spawning Locations: A New Imprinting Paradigm for Supplementation Programs?

11:20 **Don Larson**, NOAA Fisheries, Seattle WA. The Effect of Modulating Ration and Dietary Lipid on Growth, Smolting and Early Male Maturation in Yearling Umatilla River Fall Chinook Salmon.

11:40 **Lance Clarke**, ODFW LaGrande, OR. Acclimation Strategies Improve Post-release Performance of Hatchery Salmon and Steelhead in NE Oregon.

12:00 – 1:10 Lunch / Raffle Drawing\* (1:05)

**SESSION #5: HATCHERY OPERATIONS/ NEW TECHNOLOGY****Session Chair: David Hand**

1:10 **Douglas Munson**, IDFG, Eagle Fish Health Laboratory. Renovations at Niagara Springs Hatchery – Benefits and Challenges.

1:30 **Becky Johnson**, Nez Perce Tribe, Integrating Conservation Hatchery Principles with Tribal Treaty Reserved Harvest Opportunities

1:50 **Christina Iverson**, WDFW, Hatchery Evaluation and Assessment Unit. Cowlitz Hatchery Program Modifications Using Modeling Technology.

2:10 **Tom Flagg**, NOAA Manchester, Hatcheries and Management of Aquatic Resources (HaMAR).

2:30 **Ralph Lampman**, Yakama Nation. Artificial Propagation of Pacific Lamprey: Lessons Learned and Path Forward.

2:50 - 3:20 Afternoon Break / Raffle Drawing\* (3:15)

**SESSION #6: FISH HEALTH AND NUTRITION****Session Chair: Ann Gannam**

3:20 **Mary Peters**, USFWS, Successful Disease Management of Spring Chinook Captive Broodstock at Little White National Fish Hatchery.

3:40 **Ray Brunson**, Retired USFWS, Controlling Bacterial Coldwater Disease with Fish Culture Methods.

4:00 **Ken Cain**, UofI, Coldwater Disease Research: Update on Vaccine Licensing and Commercialization Status.

4:20 **Gutenberger, Susan**. USFWS, Aquaflor to Control Mortality Due to Cold Water Disease.

4:40 **Guppy Blair & Sonia Mumford**, USFWS. Judicious Use of Antibiotics – An Overview.

5:00 **Bonnie Johnson**, USFWS, Aquatic Animal Drug Approval Program, Bozeman MT. National INAD Program Overview.

5:20 Announcements/Adjourn (Raffle Drawing\*)

5:30 Portland Room: NWFCC Ex-Com Meeting

**DAY 3: Thursday, December 13, 2012**

8:00 Announcements: Doug Olson  
8:05 Raffle Drawing\*

**SESSION #7: MISCELLANEOUS TOPICS IN FISH CULTURE**

**Session Chair: Patty Crandell**

8:10 **John Holmes.** USFWS, Differences in Egg Size Between Natural-origin and Genetically Similar Hatchery-origin Winter Steelhead in Abernathy Creek, Washington.

8:30 **Dan Magneson,** USFWS Quilcine NFH, Hoover, Bonneville, Shasta, Grand Coulee Dams – The Great Depression, WWII, and Fishery Resources

8:50 **Mitch Combs,** WDFW Sherman Creek Hatchery. White Sturgeon US Conservation Aquaculture on the Trans Boundary Reach.

9:10 **Mike McLean,** CTUIR. Practical Application of Electro-Anaesthesia in the Field.

9:30 **Maureen Kavanagh,** U.S. Fish and Wildlife Service, Columbia River Fisheries Program. Does the Use of Electronarcosis on Adult Coho Salmon Prior to Spawning Affect Mortality and Fry Growth?

9:50 – 10:20 Morning Break / Raffle Drawing\* (10:15)

**SESSION #8 MISCELLANEOUS TOPICS IN FISH CULTURE**

**Session Chair: Robbette Schmit**

10:20 Fish Culture Hall of Fame Induction  
10:40 **Michael Gauvin.,** Utilizing Round Butte Hatchery in the Reintroduction of Anadromous Fish in the Deschutes River.

11:00 **Gary Marston & Beata Dymowska,** WDFW Olympia, WA. Washington State Hatcheries Fisheries Contribution Derived from Code Wire Tag Data.

11:20 **Beau J. Gunter,** IDFG, Grace Fish Hatchery, ID. Effects of Initial Feed Timing on Triploid Rainbow Trout Fry at Grace Fish Hatchery

11:40 **Helena E. Christiansen.** Identifying an Optimal Anesthetic for Juvenile Pacific Lamprey.

12:00 Closing Remarks / Adjourn / Grand Prize Drawing\*  
Next Years Meeting

\*Must be present to win at Raffle Drawings!

**THANK YOU TO THE FOLLOWING FOR THEIR GENEROUS DONATIONS:**

Oregon Chapter AFS	Magic Valley Heli-Arc
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Hydrolox	PR Aqua
Marisource	The Lynch Company
Smith-Root	AirSepCorporation
Oregon DFW	Kathryn Kostow NWFCC Logo Artist

**WE WOULD LIKE TO THANK THE FOLLOWING PEOPLE FOR ALL THEIR HELP:**

Doug Olson	Brett Galyean	Mark Ahrens
Chris Starr	Margaret Anderson	Matt Hall
Anna Ray	Nathan Wiese	Jim Bowker
Patty Crandell	Ann Gannam	Julie Collins
Cheri Anderson	Donna Allard	Steve Wingert
Jeremy Sommer	Larry Telles	David Hand
Robbette Schmit		
And all the many others...		



**63<sup>rd</sup> ANNUAL  
NORTHWEST  
FISH CULTURE CONFERENCE**

**DECEMBER 11-13, 2012  
Portland Downtown Marriot Waterfront  
Portland, Oregon**



**HOSTED BY:  
U.S. FISH & WILDLIFE SERVICE**